PATENT COOPERATION TREATY

REC'D 2 0 APR 2005

From the INTERNATIONAL SEARCHING AUTHORITY

Outokumpu Oyj

Management P.O. Box 27 FI-02201 Espoo Finland	Cy	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1)		
		Date of mailing (day/month/year)	1 4 -04- 2005	
Applicant's or agent's file reference 20031077 WO		FOR FURTHER ACTION See paragraph 2 below		
International application No. PCT/FI 2004/000767	International filing date (day/month/year) 16.12.2004		Priority date (day/month/year) 17.12.2003	
International Patent Classification (IPC BO1F 3/04	c) or both national classif	ication and IPC		
Applicant OUTOKUMPU OYJ et al				
1. This opinion contains indications r	elating to the following i	tems:		

1.	1. This opinion contains indications relating to the following items:					
	\boxtimes	Box No. I	Basis of the opinion			
		Box No. II	Priority			
	靣	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability			
		Box No. IV	Lack of unity of invention			
,	Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industry applicability; citations and explanations supporting such statement					
		Box No. VI	Certain documents cited			
		Box No. VII	Certain defects in the international application			
		Box No. VIII	Certain observations on the international application			
2.	If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1 bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailin of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further opinions, see Form PCT/ISA/220.					
3.	For	further details, s	see notes to Form PCT/ISA/220.			
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/FI 2004/000767

Bo	x No. I	Basis of this opinion
1.	which it wa	to the language, this opinion has been established on the basis of the international application in the language in s filed, unless otherwise indicated under this item. opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 23.1(b)).
2.	With regard	to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the ention, this opinion has been established on the basis of:
	a. type of	
		a sequence listing
	. \square	table(s) related to the sequence listing
	b. format c	material
		in written format
		in computer readable form
	c. time of	Filing/furnishing
1		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3.		n addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been iled or furnished, the required statements that the information in the subsequent or additional copies is identical to nat in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
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4.	. Additiona	comments:
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/FI 2004/000767

Box No. V	Reasoned statement u applicability; citation	nder Rule 43 s and explan	3bis.1(a)(i) with regard to novelty, inversations supporting such statement	afive step or industrial
1. Statemer	nt			
Novel	ity (N)	Claims	1-10	YES
		Claims		NO
Inven	tive step (IS)	Claims	1-10	YES
	. • • •	Claims		NO NO
Indus	trial applicability (IA)	Claims	1-10	YES
		Claims		NO

2. Citations and explanations:

Documents cited in the International Search Report:

D1: US-B1-6 346 198 D2: SU-A-1 042 782 D3: RU-C-2 085 269 D4: JP-A-10286446 D5: US-A1-6 158 721

The cited documents represent the general state of the art. The invention defined in claims 1-10 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed process and apparatus for producing a solution of a gas in a liquid, the solution having a predetermined concentration up to saturation, the gas and the liquid in a stream intermixing under action of gravity and the intermixing being repeated. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-10 is novel and is considered to involve an inventive step. The invention is industrially applicable.